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window assembly 114. Beneath the substrate 106 is a reflector 102 which is mounted on a water-cooled, stainless steel base 116. The base 116 includes a circulation circuit 146 through which coolant circulates to cool the reflector and reflecting surface. Water, which is above 23°C, is circulated through the base 116 to keep the temperature of the reflector well below that of the heated substrate. The reflector 102 is made of aluminum and has a highly reflective surface coating 120. An underside or backside 109 of the substrate 106 and the top of reflector 102 form a reflecting cavity 118 for enhancing the effective emissivity of the substrate.

Replace the paragraph at page 11, line 1, with the following text: ✓

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The lamp seal of the lamp is cooled by its close proximity to the surrounding cooled metal surface of the lamphead-reflector. Heat transfer from the lamp seal area can be improved through the use of heat transfer fluids, pastes, or polymers. A thermally conductive gas lamp ambient, for example, helium, may also be used to cool the lamp walls as described in U.S. application Serial No. 09/595,758, entitled "A Semiconductor Processing System with Lamp Cooling" (attorney docket number 3257-435001), filed on June 16, 2000, assigned to the assignee of the subject application and which is incorporated herein by reference. In the case of a low-pressure helium ambient, provision must be made to prevent pin-to-pin arc-over, as described below.

In the Claims: ✓

Marked up versions of all revised claims, showing insertions and deletions, are included in Appendix B.

Rewrite the pending claims as follows:

1. A lamphead for use in semiconductor processing, comprising:
a monolithic member; and
a plurality of lamp receptacles and reflector cavities formed in the monolithic member, each lamp receptacle adapted to support a lamp and each reflector cavity shaped to act as a reflector for the lamp.